

## Meeting Minutes 1-22

### Present-

- Emily
- Jake
- Dr. Rezaie

### Current Design Status

- Drawings made, but exact number of supports pending verification of calculation method
- Thoughts:
  - Pros:
    - Design Ray suggested
    - Based off design of houses, so will definitely support weight of gravel
  - Concerns:
    - The bottom could possibly bow
    - Bending stress will be a serious concern
    - The bottom might not be stable
    - The air going underneath will not be symmetric
  - Ideas
    - Use bands around the box
      - Will this cause additional bowing
      - What will support the middle of the wall?
    - Use premade shelving supports (b/c we are running out of time)
- Calculations
  - Currently finding equivalent force and location of equivalent force in between beams to determine bending stress
  - Will also need to move supports to not be on very end

### Summary

Need to relook at calculations and design to include new design ideas